skeye.

skeye.dart
HW 90240

Version 1.04

User Guide

HÖFT & WESSEL

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1. Introduction

The skeye.dart is a modern industrial PDA. It has been designed for the use as selfscanning terminal or mobile terminal for field applications. You can choose between several variants.

With protection level IP54 against dust and moisture and drop protection of 1.20 m the skeye.dart is proper for the use in rough environments.

1.1 Document Information

Product:	skeye.dart
Type of Document:	User Guide
Version:	1.04
Author:	Lin / Höft & Wessel AG, Hannover

1.2 Changes

Version:	Changes:	Date:	By:
01.00	First version	09.01.2009	Lin
01.01	Hint backup battery clarified	21.04.2009	Lin
01.02	Adjusted to current techn. status/edited	18.05.2009	Esp/Lin
01.03	New chapters: Insertion of the SIM card; GSM service; Establishing a GPRS connection; SysApp; SysBackup; Soundset; GPS module Revision	16.11.2009	Lin
01.04	Enhanced by keye.dart PBV and XKE		Lin

1.3 Terminology

skeye.dart HW 90240	Portable Data Terminal (in the following referred as "mobile terminal") with WLAN IEEE 802.11b/g and Bluetooth 2.0
skeye.dart FFE HW 90240 FFE	Like the skeye.dart, additionally with GSM/GPRS/EDGE and GPS
skeye.dart PBV HW 90240 PBV	Like the skeye.dart, additionally with headset connection ("Pick-by-Voice")
skeye.dart XKE HW 90241 XKE	Like the skeye.dart, additionally with 31 key keyboard ("Extended Keyboard Edition")
Battery HW 19240	The mobile terminal is supplied by a rechargeable lithium-ion battery
Communication cradle USB HW 50240	Communication cradle with USB interface for the mobile terminal (Standard)
Desktop cradle USB HW 50242	Communication cradle with USB interface for the mobile terminal (with additional battery charging compartment)
Power supply unit	Wide range switched mode power supply unit to provide the mobile terminal and the communication cradle with power.
Passive holder HW 51240	For installation of the skeye.dart in vehicles and for charging of the battery.

1.4 Readership

The documentation is intended for people operating the **skeye.**dart.

1.5 Intended Use

The skeye.dart has been designed for use in the commercial sector and for acquiring and transferring data within buildings or vehicles or outside under moderate climate conditions.

The skeye.dart is not intended for distribution to private households.

Please pay attention to the information of this user guide, especially the safety notes. Intended use means that the device must only be used and operated in accordance with the information contained herein. Any other use is not an intended use and may lead to property damage or even personal injury. Höft & Wessel does not accept any liability for damages caused by a usage other than the intended usage.

1.6 Safety Notes

Carefully read and follow the user manual and the safety information mentioned in this chapter before performing further steps. You have to:

- read
- keep the information in mind during work.

This is the precondition for

- secure working with the product
- undisturbed handling

1.6.1 General Safety Notes

Transport and Storage:

- The device must only be shipped in original or comparable robust packaging. Shipping the device e.g. in a normal padded bag does not provide sufficient impact and pressure protection.
  Such improper packaging would fall under the definition of the term Negligence.

Handling:

- Never expose the skeye.dart to very high temperatures for a long time.
- Never insert any objects not intended for use with this device in the instrument's openings. This might damage the device.

Operating:

- Do not dip the skeye.dart into fluid.
- Only use your skeye.dart with original equipment. Non-compliance voids the warranty.
- Do not operate your skeye.dart when you are in explosive areas, for instance in petrol stations, fuel depots, chemical plants, below deck in ships, near blasting operations, in locations where a large volume of dust particles (such as flour, wood or metal) is present in the air, etc.

We recommend to switch off the device completely. This also applies to places where you are usually advised to switch off your vehicle motor.

- Do not operate in close range of strong electromagnetic fields. Failures may be caused.
- Interference may be noticed near electric devices. Therefore, always pay attention to local safety regulations.
- Users with hearings aids must note that radio signals of electronic devices (with radio equipment) may launch into hearing devices causing an unpleasant noise.

Maintenance, Service and disturbances:

- The skeye.dart is – apart from charging of battery and the mentioned comments – lifetime maintenance-free and does not need special care.
- Do not try to open, repair or modify your skeye.dart. The manufacturer will not be liable for any damage caused in that way. Apart from other things, the function for correctly charging the battery may be influenced. As a result, excessive charging voltage, uncontrolled charging and discharge current, leakage of harmful substances, excessive heat generation, bursting or fire may occur.
- Any tampering by non-authorised persons will invalidate the warranty.
- If your skeye.dart needs to be repaired or maintained, please contact your specialised dealer.
- Clean the housing only with damp cloth and mild detergent.

1.6.2 Safety Notes for the Lithium-Ion Battery

Carefully read the following safety notes to prevent an incorrect handling of the battery and to avoid possible dangers.

Non-observance of the safety information or incorrect use of the battery can lead to excessive current flow, to the discharge of harmful substances, excessive heat development, explosion or fire.

Transportation and storage:

- Do not transport or store the battery together with metal objects such as necklaces, hairpins, etc. Doing so may short circuit the battery, which could result in excessive current flow and possibly cause leakage of battery fluid, heat generation, bursting or fire. When carrying or storing batteries, use an electrically nonconductive (insulated) case.
- When the equipment is expected not to be used for a long time do not store the batteries exceeding the appropriate conditions as listed below. Otherwise its performance will be degraded and its service life will be decreased.
  - when the batteries are discharged and remain in the equipment: 1 week
  - when the batteries are fully charged and remain in the switched off equipment: 1 month
  - long-term storage: see next note.
- When the battery is expected not to be used for a long time, take the battery out of the equipment and store it in a dry place at or below room temperature. For an optimum service life, the battery should be charged up to 20 to 40% when being stored. After 12 months at the latest the device should be charged and subsequently discharged. Otherwise, its performance will be degenerate and its service life will be decreased.

- Switch off the backup battery if you do not use the device for a longer time (see chapter 3.1)
- Store the battery in a location where children cannot reach it. Also make sure that a child does not take out the battery from the charger or equipment being used. If a child swallows a battery, seek medical attention immediately.
- The storage temperature must not be below –20 or above +50°C.

Ambient conditions:

- The temperature may not be outside the admissible operating and storage temperature range of -20 to +50 degrees centigrade. The temperature may be within the range of 0 °C to +40 °C during charging.
- Do not discard the battery into fire and do not leave it in a hot place such as near a fire or on a heater. Doing so melt the insulation, damage the sealing parts or protective devices, cause leakage of battery fluid (Electrolyte) from the batteries, bursting or fire.
- Do not immerse batteries in water or seawater, and do not allow them to become wet. Batteries which have become wet must always be replaced with new ones because internal short-circuits can cause dangerous heat emissions if further used.
- Do not throw batteries, and do not allow them to fall on hard surfaces.

Connection:

- Do not connect the battery to an electrical outlet, e.g. vehicle cigarette lighter, power outlets, other power supply units, other charger, etc.
- Do not reverse the positive (+) and negative (-) terminals when inserting the battery. Since the mechanical design of the battery enables you to insert in one direction only, the battery must not be inserted into the opposite direction by force.

Handling:

- Protective devices to prevent danger are built into the battery. To ensure for a proper operation, do not disassemble the battery or modify parts of it. If they are damaged, this could result in excessive charging voltage, control loss during charging or discharging, leakage of battery fluid, heat generation, bursting or fire.
- Do not disassemble Li-ion bare cells of the battery. There is the danger of flammable fluid being spilt. It may also cause an internal or external short circuit, leakage of battery fluid, heat generation, bursting or fire.
- Do not directly solder the battery. Doing so melt the insulation, damage the sealing parts or protective devices, cause leakage of battery fluid (Electrolyte) from the batteries, bursting or fire.
- Do not short-circuit the battery by directly connecting the positive (+) and negative (-) terminals with objects such as wire. Short circuiting generates heat which may damage the equipment. In the worst case this could result in leakage of battery fluid, bursting or fire.
- Do not put the battery into a microwave oven or pressurised container. This could result in leakage of battery fluid, bursting or fire.
- Do not pierce the battery with a nail or other sharp object, hit it with a hammer, or step on it. This could result in leakage of battery fluid, bursting or fire.

Operation:

- For operation of the device use the delivered battery only. Please use the battery only for the determined purpose.
- Do not use the battery in any device other than those specified in this manual. Depending on the device being used, doing so may cause abnormal current flow, leakage of battery fluid, heat generation, bursting or fire.
- If the battery becomes discolored or deformed, or in any way appears abnormal, stop using it. Return it to the distributor or manufacturer from whom you purchased it.
- Do not use or leave the battery in very high temperatures (for example, under strong direct sunlight). Otherwise, it may cause leakage of battery fluid, bursting or fire or its performance will be degenerate and its service life will be decreased.
- To ensure safety, the battery incorporates built-in safety devices. Do not use it in a location where static electricity is greater than what the manufacturer guarantees. Otherwise, the safety devices may be damaged, causing leakage of battery fluid, expose of fire.
- Do not use the battery in other than the following conditions. Otherwise, it can overheat or fire, or its performance will be degenerate and its service life will be decreased.
  - when the battery is charged: 0 °C ~ +40 °C
  - when the battery is discharged or stored: -10 °C ~ +50 °C

  Note: higher temperatures increase the self-discharge of the battery.
- Do not use the battery in combination with primary batteries (such as dry-cell batteries) or batteries of different capacities or brands. That may cause leakage of battery fluid, heat generation, bursting or fire.
- Do not connect different assembled batteries together. And also do not connect same assembled batteries in series, unless explicitly instructed by the user information to do so.

Charging:

- When recharging, only use the battery charger specially provided by Skeye. Failure to follow proper charging procedures may cause excessive voltage, excessive current flow, loss of control during charging, leakage of battery fluid, heat generation, bursting, or fire.
- Do not use or charge the battery near a heat source such as fire or heater or in extremely hot weather.
- Do not charge a battery when it is cold (below 0 °C). This may cause impaired performance and shortening of battery service life.
- If a battery is to be used for the first time or it has not been used for a long time, be sure to charge it.

Health hazards:

- If a battery leaks, and the electrolyte enters the eye, do not rub but rinse out thoroughly under flowing water and then seek medical assistance. Otherwise, eye damage can result.
- If a battery leaks and the electrolyte makes contact with clothing or the skin, the skin or clothing must be rinsed out under flowing water in order to prevent damage to the skin.

Maintenance, service and disturbances:

- Lithium-ion batteries have a predetermined operating life. If the operating time shortens excessively, this means that the battery life has expired. If it comes to that point, stop use immediately and replace with new batteries.
- Lithium-ion battery is a designated product of Recycle. The battery after using is a valuable resource. The return of the batteries ensures reuse of the chemicals contained. This recycling process avoids any impact to the environment.
  Höft & Wessel guarantees that all batteries returned are fed to the recycling process.
  When a battery is no longer usable, discharge it. When you dispose of the Lithium battery, insulate it by wrapping the terminals with tape. Mixing the battery with other metals or batteries may lead to fire, heat, or explosion.
  Then, return the battery to Höft & Wessel. As a part of its normal service, Höft & Wessel guarantees that all used batteries are fed to the recycling process.

  See also extract from BattV (Decree for the return and disposal of used batteries and accumulators, Germany) as of 09.09.2001:

  „The manufacturers are obliged to take back and reuse toxic containing batteries according to the regulations and dispose of non-reusable batteries that have been handed in by distributors (§5) or public disposal departments (§9)."
- If Lithium-ion batteries are not fully charged after the battery charger's predetermined charging period has elapsed, stop the charging process. Prolonged charging may cause leakage of battery fluid, heat generation or bursting of fire.
- If the battery leaks or gives off a bad odor, remove it from any exposed flame. Otherwise, the leaking electrolyte may catch fire, and the battery may explode or fire.
- If the battery gives off an odor, generates heat, becomes discolored or deformed, or in any way appears abnormal during use, recharching or storage, immediately remove it from the device or battery charger and stop using it.
- In case the battery terminals are dirty, clean the terminals with a dry cloth before use, otherwise, the contact with equipment may cause insufficiency, and power failure or charge failure.

1.6.3 Safety Notes for the Communication Cradle/ Battery Charger

- The battery may only be charged with the battery charging device recommended by the manufacturer. The utilisation of another battery charger might be dangerous and leads to an end of the warranty.
- Do not try to open, repair or modify your device. The manufacturer will not be liable for any damage caused in that way. Apart from other things, the function for correctly charging the battery may be influenced. As a result, excessive charging voltage, uncontrolled charging and discharge current, leakage of harmful substances, excessive heat generation, bursting or fire may occur.
- If the communication cradle/battery charger changes shape or colour, generates heat or in any way appears abnormal stop using it. Return it to the distributor or manufacturer from whom you purchased the communication cradle/battery charger.
- Use the communication cradle/battery charger only with the supplied power supply. The main voltage must correspond to the technical data mentioned on the power supply.
- Use the communication cradle/battery charger only in dry, closed rooms and not in direct sunlight, e.g. behind windows.
- The device has to be connected to a USB 1.1 or higher interface.
- Keep the device out of the reach of small children.

1.6.4 Safety Notes for the Power Supply

- Do not try to open and/or repair and/or alter the power supply. The manufacturer will not be liable for any damage caused in that way.
- Always connect the power cable into an easy accessible wall outlet.
- Always connect the power cable to the device before plugging it into the wall outlet. Make sure that you do not insert the power cord into the headset plug by mistake.
- Check that the plug is clean before plugging it in.
- Do not place any objects on top of the cord.
- Do not place the cord near heating equipment.
- Do not connect cables other than those specified in this manual. Doing so may result in fire or improper operation.
- Do not use a damaged cord.
- Handle the power cord with care. Improper handling may lead to fire or shock.
- Avoid excessive bending, twisting, and pulling of the cord.
- When disconnecting the power cable, hold the plug firmly. Do not tug on the cord itself.
- Use power supply and power cable only in dry rooms.

1.6.5 Safety Notes on the Camera/Imager with LED Aimer (optional)

If your skeye.dart is equipped with an imager module with integrated LED aimer, please observe the following notes:

The LED light source is classified as a class 1 LED according to the following standard: IEC60825-1 ED 1.2:2001.

A class 1 LED is presumed to be safe under reasonably foreseeable conditions of operation. Even looking directly into the light beam by accident does not do any harm.

Caution: When changing the settings of the imager/aimer module except for those described in the user guide the LED radiation may exceed the harmless area of class 1.

1.6.6 Safety Notes on GSM/GPRS/EDGE (optional)

A GSM/GPRS communication can be realised via CF or PC card. If your device features such equipment pay attention to the safety notes.

Radio devices (such as GSM) are subject to certain restrictions when used in proximity to electronic instruments:

When being in an aircraft completely power off your skeye.dart (see chapter 3.5.2.3.). Using the skeye.dart in an aircraft interferes with the electronic equipment on board and might be dangerous. Please follow the instructions of the particular airline.

- Switch off your skeye.dart in hospitals or similar places to prevent an interference with medical devices.
- Switch off your skeye.dart at places where you are advised to switch off your mobile phone.
- The unit may affect heart pacemakers.
  The Federal Office for Radiation Protection recommends a distance of no less than 20 cm between a mobile phone and a heart pacemaker to ensure no interference takes place. This recommendation is also in line with studies and recommendations issued by independent institutes.
  Users with heart pacemakers must ensure a distance of at least 20 cm between the skeye.dart and the heart pacemaker.
- The unit may affect hearing aids.
- Interference may be noticed in close proximity to televisions, radios, PCs.

1.6.7 Safety Notes on Wireless LAN/Bluetooth

A Wireless LAN- or Bluetooth-communication can be realised using an integrated module. If your skeye.dart is equipped with a WiFI-/Bluetooth-module, please pay attention to the safety notes.

Radio facilities – as well as Wireless LAN and Bluetooth - are subject to certain restrictions during use near electronical devices. In this connection please read the safety notes of the previous chapter.

Wireless LAN data communication and Bluetooth can be easily intercepted and recorded. Secure your network against unauthorised intrusion into the WLAN. We recommend that you consult a specialist (e.g. a system house).

1.6.8 Safety Notes on Data Loss

- It is very much recommended that all important data be backed up as durable hardcopy. It is very much recommended to store all recorded data to flash disk and to regularly back up the data on an external medium. Given certain conditions, loss or modification of data can occur in practically any electronic storage system. Therefore, we do not accept any liability for loss of data or data being otherwise rendered unusable following incorrect use, repairs, faults, battery problems, software errors or for any other reason.

  We shall not be held liable either directly or indirectly for any financial loss or third party compensation claims which arise on foot of the use of this product and all and any of its functions, such as stolen credit card numbers, loss or modification of data, etc.

1.7 Disposal

The skeye.dart is not intended for use in private households. The device must not be disposed of via a public waste disposal system. For disposal, return the device to the Höft & Wessel AG.

1.8 Explanations on this Manual

The User Manual is designed to enable you to get your skeye.dart up and running quickly and is structured as follows:

- Introduction
- Taking into operation
- Software
- Communication/Data exchange
- Troubleshooting
- Annex

It is assumed that your are familiar with Microsoft Windows 2000, Windows XP, Vista or Windows 7.
In case of problems refer to the corresponding Microsoft documentation.

The skeye.dart supports the operating system Windows CE 6.0.

1.8.1 Note Pictograms

Safety notes in the text are always illustrated in the same way.
In this manual three different safety notes are used.

NOTE!

A note points out tips on simplified use of the system / device for example by describing a simplified workflow using a certain tool.

CAUTION!

A CAUTION warning sign points out potential dangers relating to the equipment (i.e. short circuit) or loss of data.

WARNING!

The WARNING sign draws the user's attention to potential dangers that could be harmful to the health/life of the user (i.e. electric shock) or seriously damage the equipment (the equipment could be destroyed).

Indicates an alternative method to complete a task or additional information on a topic.

1.8.2 Registered Trademark

The following terms and names used in this manual are registered trademarks and products of the corresponding companies:

- Microsoft®, Windows®, Windows NT®, Windows^{XP}, Windows CE®, Windows CE.NET® and ActiveSync® are registered trademarks of the Microsoft Corporation, USA.
- Other product and company names may be trademarks of other companies.

All trademarks mentioned and possibly protected by third parties are subjected to the ownership of the corresponding registered owners.

2. skeye.dart

2.1 Variants of the Base Types

There are several different hardware variants available for the skeye.dart. In contrast to the other variants the FFE variant posseses additional **GSM/GPRS/EDGE**- and **GPS modules**.

Fig. 1: skeye.dart FFE

Fig. 2: skeye.dart XKE

Fig. 3: skeye.dart PBV*

**Headset not contained in scope of delivery*

2.2 Accessories

- Battery HW 19240
- Battery HW 19241 (doubled capacity)
- Power supply unit 14240
- Adapter for Sennheiser SH330 Headset
- Case with belt clip
- Stylus
- Display protector

2.3 Communication Cradle

- Communication cradle HW 50240 USB (Standard)
  (including power supply unit and USB cable)
- Desktop cradle HW 50242 USB
  (including battery charger, power supply and USB-cable)
- Desktop cradle HW 50241 Ethernet
  (including battery charger and power supply)
- Car charging cradle HW 51240
  (including power cable)

2.4 Hardware Equipment

All variants:

- incl. battery
- 128 MB DDR-RAM, 256 MB Flash
- Integrated Wireless LAN module, 802.11 b/g
- Bluetooth
- SIM card slot (lockable to prevent unauthorised card removal)
- MicroSD card slot (lockable to prevent unauthorised card removal)

skeye.dart:

- ScanCam
- 11 key keyboard

skeye.dart FFE:

- ScanCam
- GPRS
- GPS
- 11 key keyboard

skeye.dart PBV:

- 2D Imager
- Headset-Interface
- 11 key keyboard

skeye.dart XKE:

- ScanCam
- 31 key keyboard

2.5 Software Equipment

Windows Embedded CE 6.0

2.6 Views

2.6.1 Front View

Fig. 4: Front view

This figure shows the standard keypad assignment for a 5-key-device.
The standard keypad assignment (software) can be optionally changed for all variants.

Keypad assignment for the XKE device

This figure shows the standard keypad assignment for the XKE device.

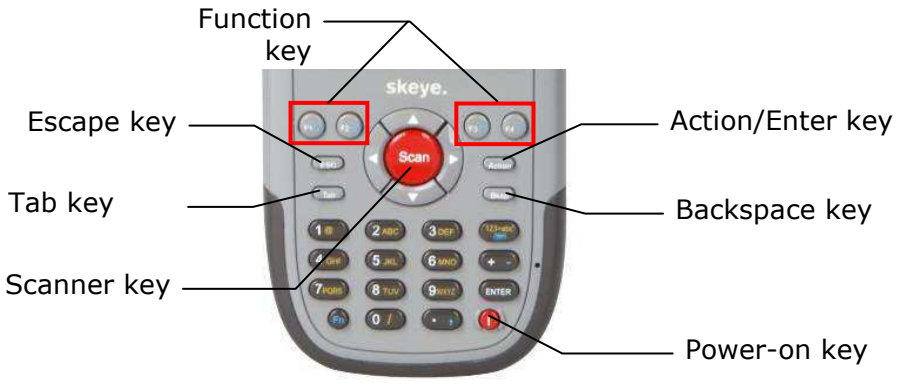


Fig. 5: Keypad assignment XKE

[Fn] + [⌨] = show Sip keypad
123>abc = switch between numerical and alphanumerical (yellow) keypad

2.6.2 Side View

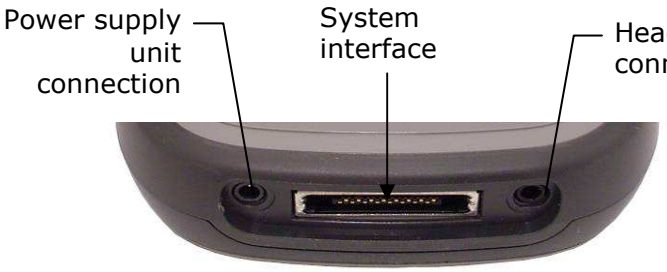


Fig. 6: lower side

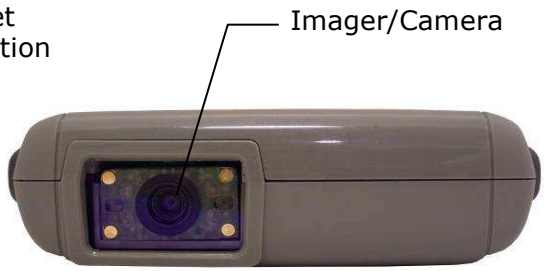


Fig. 7: upper side

2.6.3 Rear View

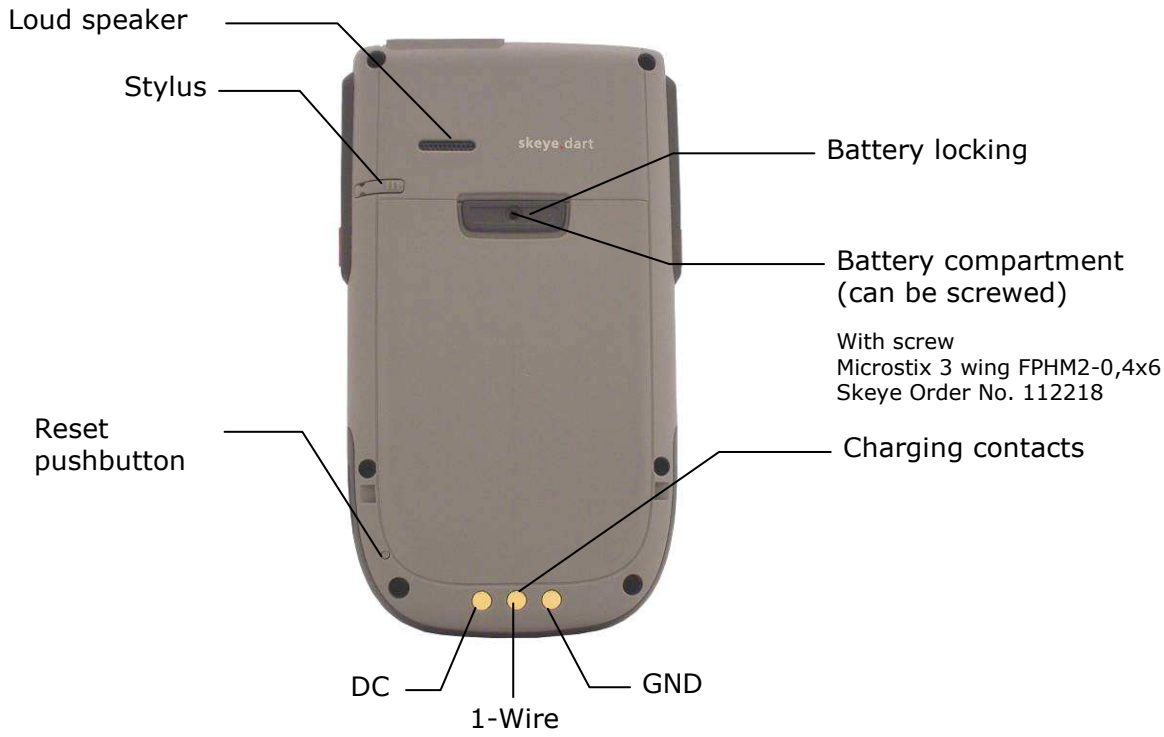


Fig. 8: Rear view

2.7 LED Function Displays

There are two modi:

- skeye.dart inserted in communication cradle: the LED of the skeye.dart is
  - red = battery is charging
  - green = battery fully charged

- skeye.dart is mobile: can be operated by the application

3. Taking into Operation

The mobile terminal comes with a separate battery and a backup battery that is switched off. The backup battery has to be switched on before you insert the battery.

3.1 Switching on the Backup Battery

In the battery compartment push the switch (○) of the backup battery towards the display using the stylus. The battery is now switched on.

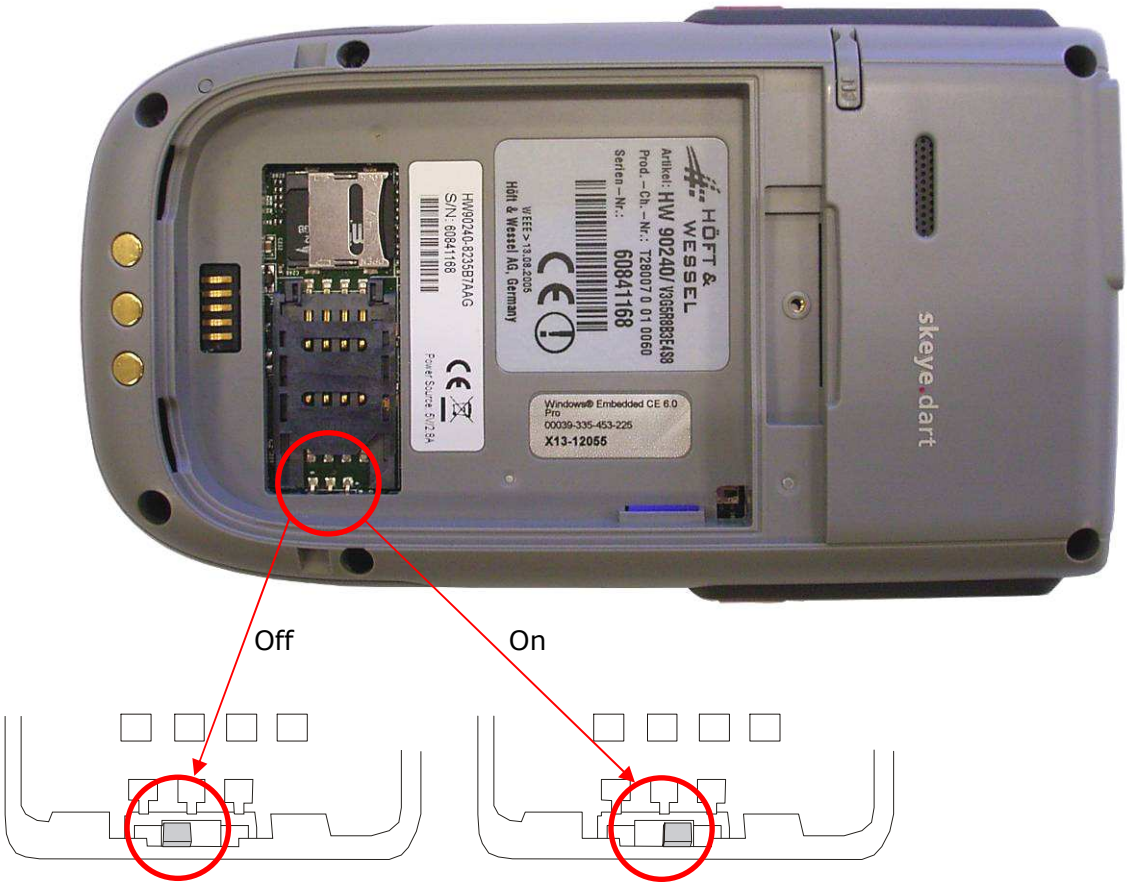


Fig. 9: Backup battery | switched **off** Backup battery | switched **on**

3.2 Inserting the Micro SD Card

A Micro SD card as well as a MicroSDHC card can be used as storage medium.

- First remove the battery (see chapter 3.4.2).
- Then move the locking mechanism of the card holder to the right (bottom of device).

- Flap the cover of the card holder upwards and insert the micro SD card that the contacts of the micro SD card point to the contacts of the circuit board.

- Lock the card holder inclusive inserted card (move locking mechanism to the left).

Fig. 10: Inserting a micro SD card

3.3 Insertions of the SIM Card

**only available in the skeye.dart FFE version*

The SIM card necessary for the GSM/GRPS/EDGE function is inserted into the designated slot under the battery.

- Remove the battery (see chapter 3.4.2).
- Push the locking of the card holder down.

- Swing open the cover of the card holder.
- Carefully insert the SIM card. The conical corner should be top left, the contacts of the SIM card should rest on the contacts of the board.
- Only slightly insert the SIM card into the holder. If you push it too far into the holder the hinges of the holder might block

- Push the locking upwards, thus locking card holder incl. inserted card.

Fig. 11: inserting a SIM card

3.4 Battery

3.4.1 Inserting the Battery

There is only one way to insert the battery.
Insert the battery with its noses at the rounded part into the relevant recesses inside the battery compartment. Press the battery until it audibly engages. See also chapter 3.4.2.

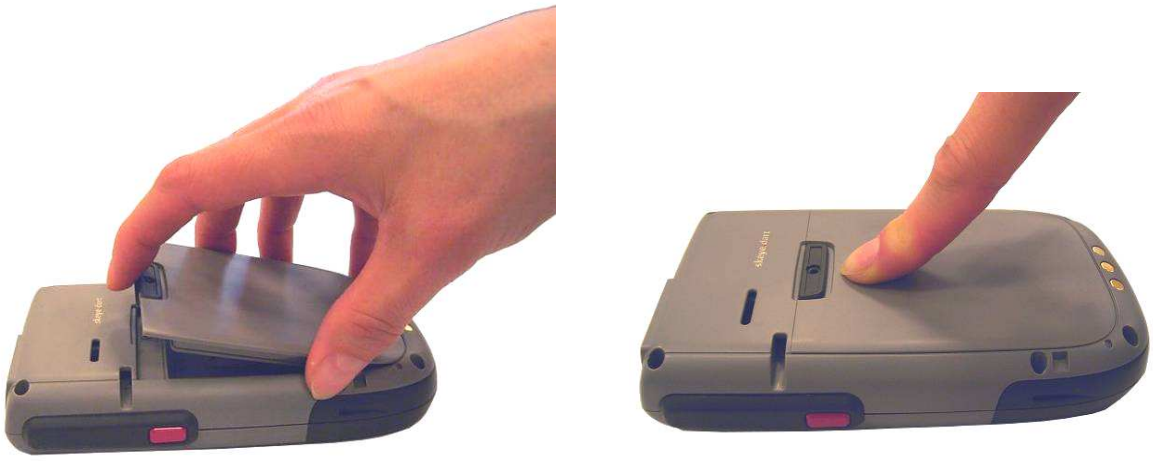


Fig. 12: inserting the battery

Prior to initial operation the battery should be charged completely. To do so, insert the mobile terminal including battery into the communication cradle (connected to power) or connect the power supply unit to the device.

Fig. 13: mobile terminal in communication cradle / mobile terminal connect to power supply unit

To remove the battery press the battery lock down and remove (see chapter 3.4.2).

3.4.2 Replacing the Battery

1. Back up your data before changing the battery.

2. Switch off the device before changing the battery.

Push the battery locking down, keep it pressed and remove the battery.

To re-insert the battery, insert it with its noses at the rounded part into the relevant recesses inside the battery compartment. Press the battery until it audibly engages. See also chapter 3.3.

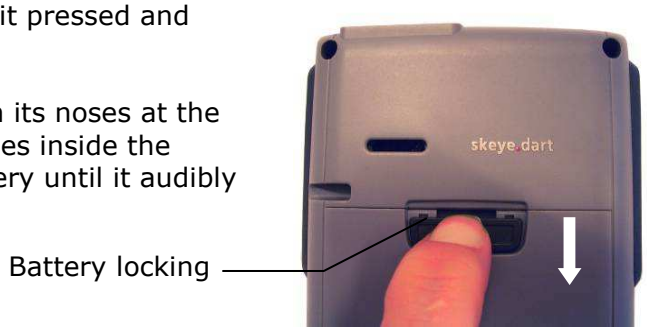


Fig. 14: Changing the battery

3.4.3 Charging the Battery

The battery in the skeye.dart is automatically recharged if the skeye.dart is

- connected to the power supply unit
- placed in the communication cradle (with connected power supply unit)

The Systray displays one of the following symbols:

Battery is charging

The battery is below the first voltage level.

The battery is below the second voltage level.

There is an external power supply but the battery is not charged (full battery)

Always recharge the battery in time. If the battery is discharged data loss may occur.

3.5 Switching On/Switching Off the skeye.dart

3.5.1 Switching On

The mobile terminal is switched-on by pressing the round button in the middle.

Fig. 15: switch-on the device

3.5.2 Switching Off the skeye.dart

There are three ways to switch off your skeye.dart:

- Suspend mode
- Automatic Standby
- Complete Power Off by Removing the Battery

3.5.2.1 Suspend Mode

Suspending a device means that it is inactive and thus consumes less power. A suspended skeye.dart can be activated any time.

While suspending information in the RAM of the skeye.dart is maintained. If the power supply is interrupted e.g. due to a discharged battery, information in the RAM gets lost.

It is thus recommended that you store all current data in the flash or on SD card prior to suspending the skeye.dart

Suspending the skeye.dart:

1. Tap [Start] in the task bar.
   *The **Start** menu opens up.*

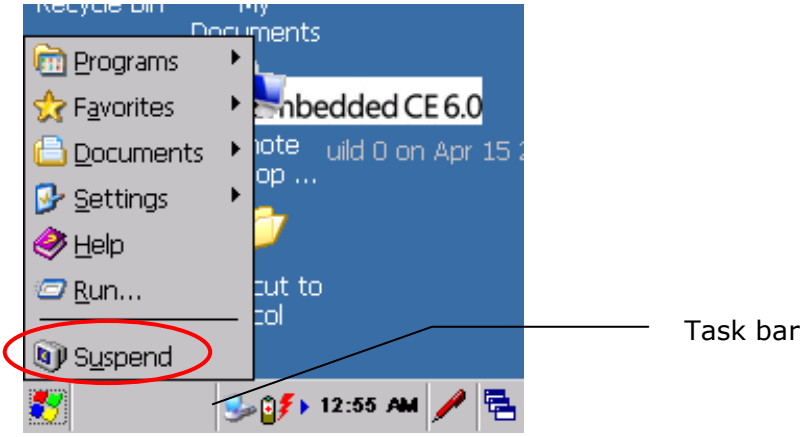


Fig. 16: Start menu

2. Tap **Suspend**.

   or

3. Press the red key (bottom right) for about 5 sec or the On/Off key (bottom right) at the skeye.dart XKE for about 2 sec.

about 5 sec

about 2 sec

The skeye.dart will be suspended in its current state. All open windows, documents, workbooks etc. are not closed but maintained in the working memory.

The skeye.dart is suspended.

If the power supply was not interrupted e.g. due to a discharged battery the data will be available again when you switch on/start the device.

3.5.2.2 Automatic Standby – Power Supply

Use the Power Supply function to save battery life. If you do not operate the unit for a certain time e.g. the display will be dimmed or the unit is set to suspend mode.

1. Launch: Start ⇒ Settings ⇒ Control Panel.
   The Control Panel menu appears.
2. In the **Control Panel** menu double tap **Power**.
   The Power Properties window appears.
3. Select the **Schemes** tab.

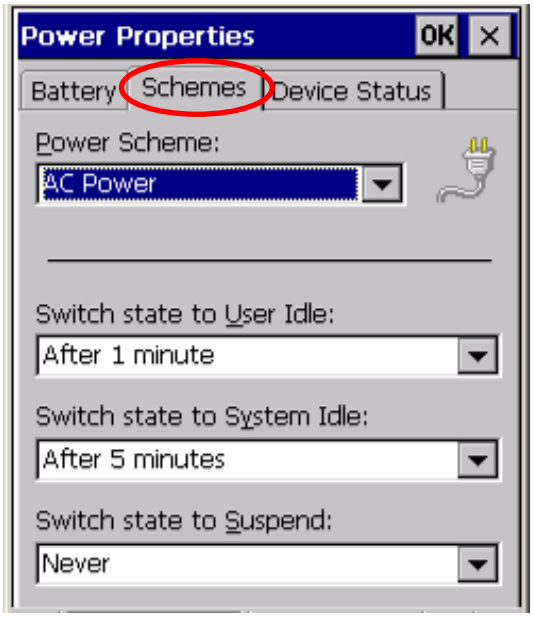


Fig. 17: Automatic power off

4. Perform the desired settings.

   The entered times are added up.
   (Example: after 1 min user idle, after 5 min system idle)
5. Click [OK] to confirm the changes.
6. Close the **Control Panel** menu.

   See also chapter 4.2.7.2.

3.5.2.3 Complete Power Off by Removing the Battery

Completely power off your skeye.dart in the following situations:

- if you do not operate your skeye.dart for a longer period of time (battery saving)
- when entering an aircraft.
- in explosive areas
- for shipping the skeye.dart

Removing the battery will delete the RAM after a while. In this case, all data in the RAM e.g. installed programs, settings or stored files are lost!

A mobile terminal with 128 MB SDRAM can keep the RAM files **about 10 minutes** (if the buffer is completely charged which takes about 20 minutes).

If the buffer is not completely charged, the time decreases correspondingly.

We recommend before removing the battery:

1. **Save data first.**
2. **Suspend the skeye.dart. Then, wait for about 10 sec. Only then the RAM is sustained.**
3. **At last, remove the battery.**

4. Initial Steps

1. Insert the battery (see chapter 3.4.2).
2. Switch on the skeye.dart by pressing the middle scan key.
3. Take out the stylus (Fig. 8: Rear view).

4.1 Operating the skeye.dart with the Stylus

The stylus functions as a computer mouse. It is used to navigate on the screen and to select elements.

Remove the stylus from its clamp and put it back when you do not need it.

Operate the touch screen only with the stylus supplied or your finger.

- **Tapping**
  Tap the screen with the stylus once to open elements and to select options.
- **Dragging**
  On screen, keep the stylus pressed and drag it over the screen to select text and pictures. Move the stylus to a list to select several elements.
- **Double-tap**
  A double-tap is the same as double-clicking the mouse.
- **Tap and hold**
  Tap on an element and keep the stylus pressed onto the screen to display a list of actions for the element. In a context menu, select the action to be performed.
- **Tapping (close menu)**
  To close a menu (e.g. the start menu) tap a free space on the desktop.

4.2 Microsoft Windows CE – Basics

This mobile terminal supports the following Windows CE version: 6.0 (copy deadline, subject to changes).

4.2.1 Start Screen

Apart from the application program the Mobile Terminal features the Windows CE surface. The following figure shows the standard Windows CE workspace which may vary.

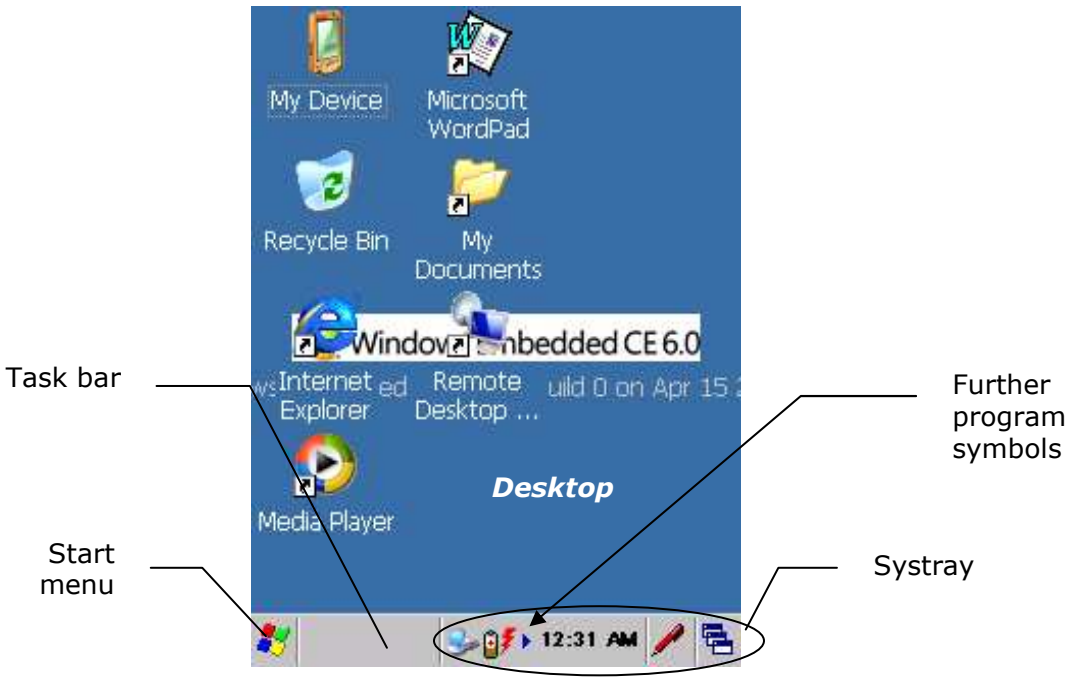


Fig. 18: Start Screen

4.2.2 Start Menu

Use the **Start** menu to call programs, change settings, manage favourites etc.

- In the task bar tap the symbol to open the **Start** menu.
- Tap and then select **Programs** to call further programs.
- Tap and then select **Settings** to perform further settings.

4.2.3 Desktop Symbols

The following list contains an explanation of the symbols which can usually be found on a Windows CE surface:

Symbol	Program	Description
	My Device	Displays the storage locations available on the mobile terminal e.g. Flash Storage as well as the network. Due to its link to the system control the **My Device** also provides for a direct access to the system management tools.
	My documents	This is your personal folder. Windows creates personal folders for each mobile terminal user.
	Recycle bin	Here, Windows stores deleted files. Files deleted by mistake may be restored.
	Internet Explorer	Searches web and WAP sites and downloads new programs and files from the internet.
	Word Pad	Creates new documents and displays Word documents created on the desktop PC for further editing.
	Remote Desktop	TerminalClient to establish a terminal server connection

4.2.4 Taskbar

The taskbar is a special workspace component which can be used to switch between open windows and to access global commands and frequently used objects.

Symbols of the taskbar (examples):

	Tap one of these symbols in the taskbar (depending on the activated keypad) and select the keypad type or “Hide input panel”.
	To display all activated programs tap this symbol which can be found in the bottom right area of the taskbar.
	To minimise all open windows tap in the bottom right area of the taskbar and then select "Desktop".

4.2.5 Right Mouse Button Function

The right mouse button is used to open popup menus that support functions like Copying, Deleting, and Sending.

To call the functions of the right mouse button tap the element for which you want to perform the action and keep the stylus pressed.

The popup window of the right mouse button displays. Here, you can select the desired function.
If you do not wish to perform an action, tap any position outside the menu.

4.2.6 Showing/Hiding the Keyboard

Showing: Tap or in the taskbar and select the desired keyboard.

Hiding: Tap or in the taskbar (depending on the activated keypad) and select "Hide input panel".

4.2.7 Basic Settings

The basic settings are mainly performed on the **control panel**.

Launch: Start ⇒ Settings ⇒ Control Panel

*The **Control Panel** window appears.*

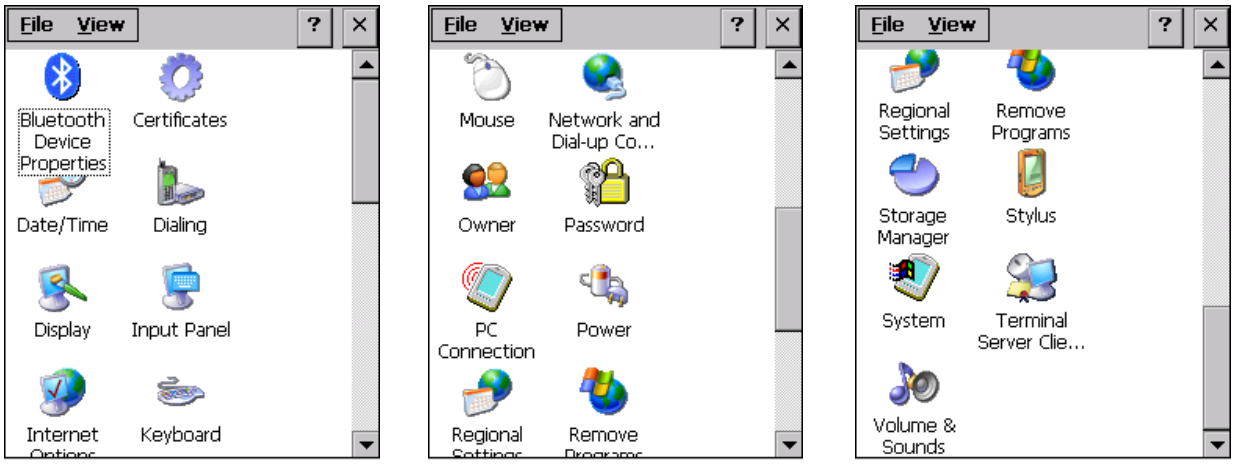


Fig. 19: Control Panel

4.2.7.1 Calibrating the Touch Screen

This function is required to fine-tune the touch screen; the better the touch screen is calibrated the more precisely it will react.

When calibrating the touch screen note the following:

- Touch the cross and keep the stylus pressed at the middle of the cross until the cross moves to the next marking.
- Do not drag the stylus over the touch screen.
- Do not rest your hand on the touch screen!

1. Launch: Start ⇒ Settings ⇒ Control Panel
2. Double-tap the **Stylus** symbol.
   The Stylus "Properties window" appears.

Stylus Properties
OK
Double-Tap
Calibration
Double-tap this grid to set the double-tap sensitivity for both the speed and physical distance between taps.
Double-tap this icon to test your double-tap settings. If this icon doesn't change, adjust your settings using the grid above.

Fig. 20: Stylus Properties

3. In the **Stylus Properties** window tap the **Calibration** tab.

Stylus Properties
OK
Double-Tap
Calibration
If your device isn't responding properly to your taps, you may need to recalibrate your screen.
To start the recalibration process, tap Recalibrate.
Recalibrate

Fig. 21: Stylus Properties | Calibration

4. On the **Calibraton** tab select **Recalibrate**.
   The window for calibrating the touch appears.
5. Position the stylus in the centre of the cross displayed *(the more precise, the better the touch screen will respond later*) and hold the position until the cross changes its position.
6. Click [ENTER] to confirm.
7. Close the **Stylus Properties** menu.
8. Please answer the question with [Yes] if the settings should be stored persistently.

Over time, the touch screen, and thus its calibration, may reset somewhat. Should you notice that the touch screen does not respond as precisely as before, repeat the calibration procedure.

4.2.7.2 Setting the Brightness

1. Launch: Start ⇒ Settings ⇒ Control Panel
   The "Control Panel" menu appears.
2. In the **Control Panel** window double tap the following symbol:
   The "Display Properties" window appears.

3. In the **Display Properties** window tap the **Backlight** tab.
4. Set the interval and situation during which the backlight should be switched off.

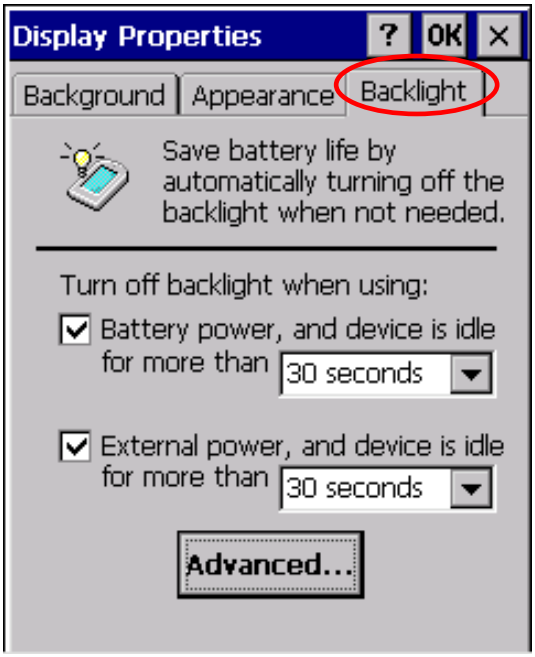
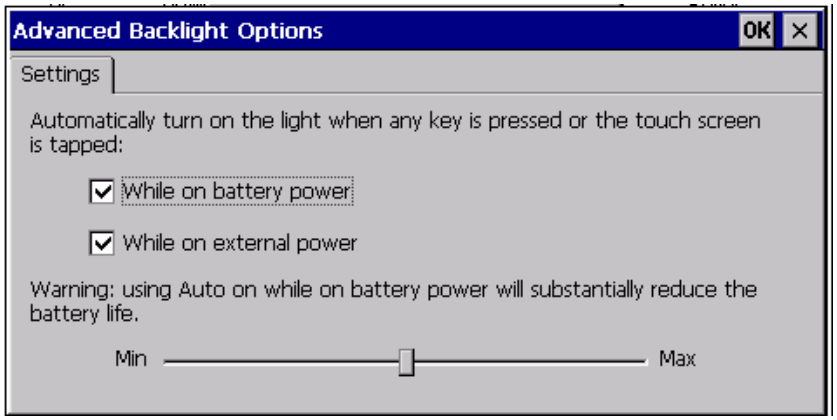


Fig. 22: Backlight

5. Then, click [Advanced].
6. In this window, adjust the brightness of the backlight with the slider.


Advanced Backlight Options
OK
Settings
Automatically turn on the light when any key is pressed or the touch screen is tapped:
While on battery power
While on external power
Warning: using Auto on while on battery power will substantially reduce the battery life.
Min
Max

To conserve battery power, keep the brightness setting as low as possible.

7. Click [OK] to confirm the setting.

5. Further Functions and Settings

Start ⇒ Programs ⇒ Utilities …

5.1 Setting of Display Orientation and -Dissolution

Select: Start ⇒ Programs ⇒ Utilities ⇒ DisplaySet

Select the appropriate depiction/dissolution and confirm with [OK]:

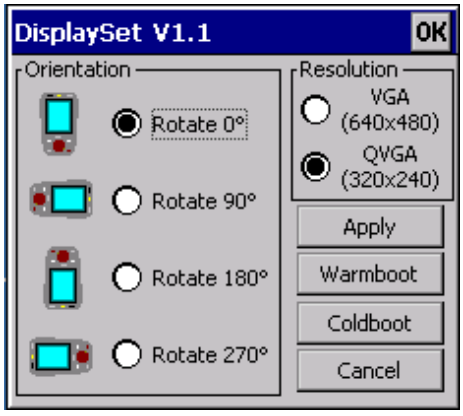


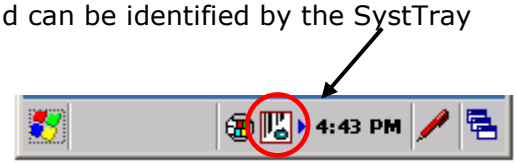
Fig. 23: Display settings

5.2 Scan of Barcodes

Call **HWImagerTool** to test the scanner function:

Start ⇒ Programs ⇒ Utilities ⇒ HWImagerTool

HWImagerTool executes in the background and can be identified by the SystTray symbol.



HWImagerTool can be used to scan into any text field (e.g. WordPad).

Calmly and angularly hold the skeye.dart in the direction of the barcode to be scanned. A peep indicates that the entry of the barcode has been successful. The gap should amount to about 5-10 cm. An aid to orientation could be the skeye.dart lettering: aim with the red dot.

- **For more information please enquire for a separate HWImagerTool user guide.**
- **Programming interfaces for Imager/Camera are available.**

5.3 Scan Keys

For scanning or camera operation you can use the middle round key or the keys at the sides.

⇦⇨ = Scanner keys

Fig. 24: Scanner keys

5.4 SysAP

Launch: Start ⇒ Programs ⇒ Utilities ⇒ SysAP

The following settings are supported:

- WIFI Power: on or off
- Bluetooth Power: on or off
- Vibrator Power: test
- Setting of loudspeaker and microphone

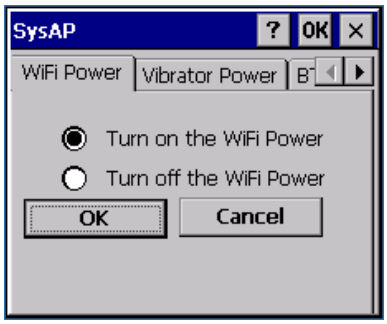


Fig. 25: SysAP

5.5 Soundset

Launch: Start ⇒ Programs ⇒ Utilities ⇒ Soundset

The following settings can be performed:

- Speaker: Loudspeaker volume for internal and/or loudspeaker of headsets

  Scroll the controller and tap [sample] to check the adjusted volume.
  You can increase the volume with "Boost".

- Microphone: Microphone volume for the internal or microphone of the headset

  Scroll the slider to increase the recording volume of the microphone.

- The program **Wavetest** (Start ⇒ Programs ⇒ Utilities ⇒ wavetest) allows you to take recordings with the microphone and to replay them.

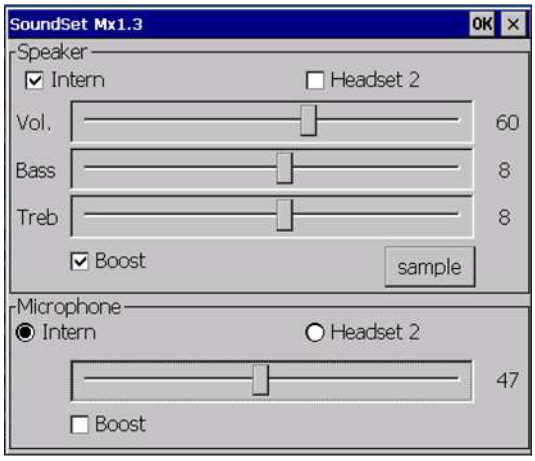


Fig. 26: Soundset

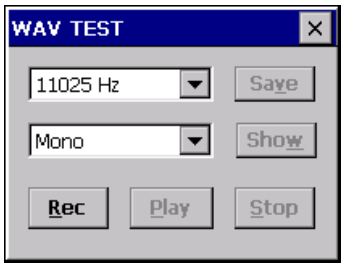


Fig. 27: Wav Test

"SysAP" also absorbs the changes made here for the loudspeakers (and vice versa). Please see previous chapter.

Start ⇒ Programs ⇒ Utilities ⇒ SysAP ⇒ tab "Voice Control"

5.6 System Info

Launch: Start ⇒ Programs ⇒ Utilities ⇒ System Info

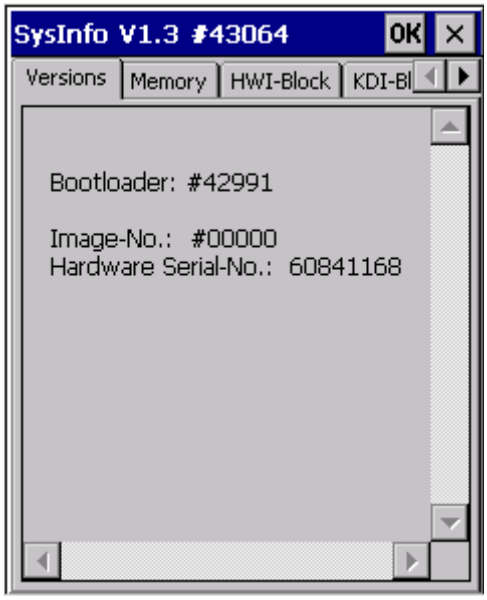


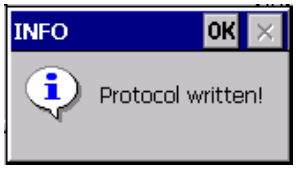
Fig. 28: SysInfo

- The **Versions** tab displays information on operating system, serial number, and battery parameters.
- The **Memory** tab displays information on physical memories, drives and data memories.
- Operating system and system programs (e.g. an update tool) can read the hardware configuration of the devices from the **HWI-Block** (Hardware Information Block).
- The **KDI-Block** (Customer information block) stores customer specific settings.
- The **GSI-Block** tab (device specific information block) contains device specific information.

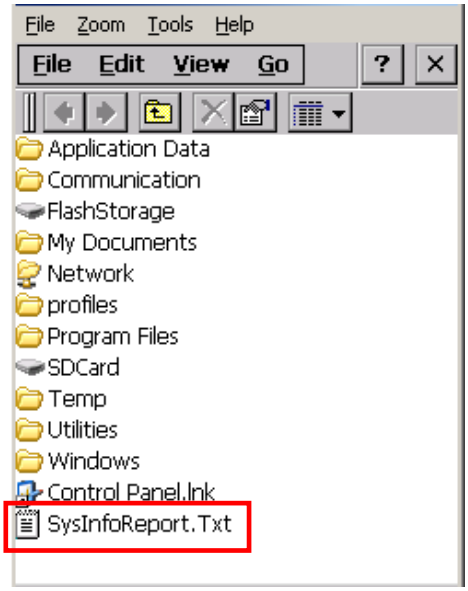
Tap [**x**] to close the window.

SysInfo Report File

When closing the SysInfo window with [OK] a report file (SysinfoReport.txt) is created containing the same information as SysInfo



With a double tap on the symbol **My Device** you can view the file.



Open "SysInfoReport.txt".

Fig. 29: Report File

Please include the report file in case of a support request.

5.7 SysBackup

Using **SysBackup** you can

- create
- restore and
- delete a backup.

NOTES:

⇒ **Backup data saved with SysBackup should only be restored in one image and on the same hardware under which they were created, as otherwise problems may occur.**

⇒ **If the option for asking the user is deactivated before the backup is created your are not prompted for confirmation after the booting process.**

⇒ **SysBackup only stores and restores data but does not delete them. This might be important in the following szenario:**
When you need a cleaned up desktop you can delete the "My Computer" and "Recycle Bin" symbols using a setting in "ExplorerConfig" as the symbols are created on the desktop via *RegistryKey.* However, all other symbols on the desktop are created in the \windows\desktop directory using *.Ink-files. From there, they have to be deleted in the autostart directory using a corresponding batch file as after a cold start of the device these files are automatically stored at this location while booting and are not deleted when you restore a backup.

5.7.1 Calling SysBackup

Start SysBackup via

- **Start** ⇒ **Run** ⇒ ***SysBackup*** (enter SysBackup) or
- **Start** ⇒ **Programs** ⇒ **System** ⇒ **SysBackup**
  The "SysBackup" window appears.

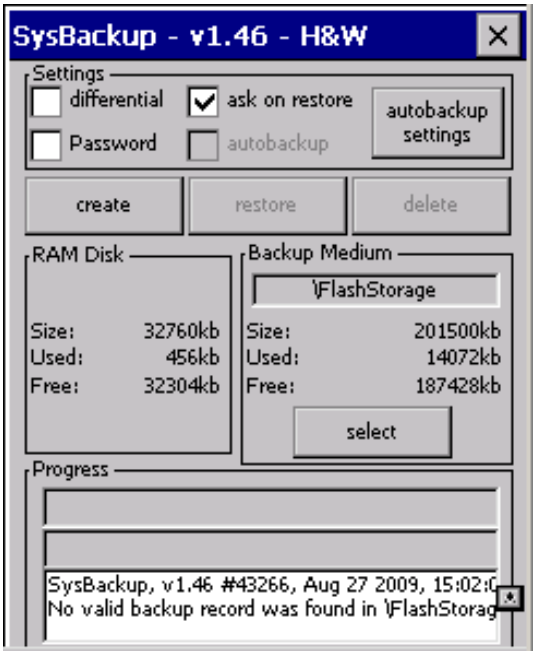
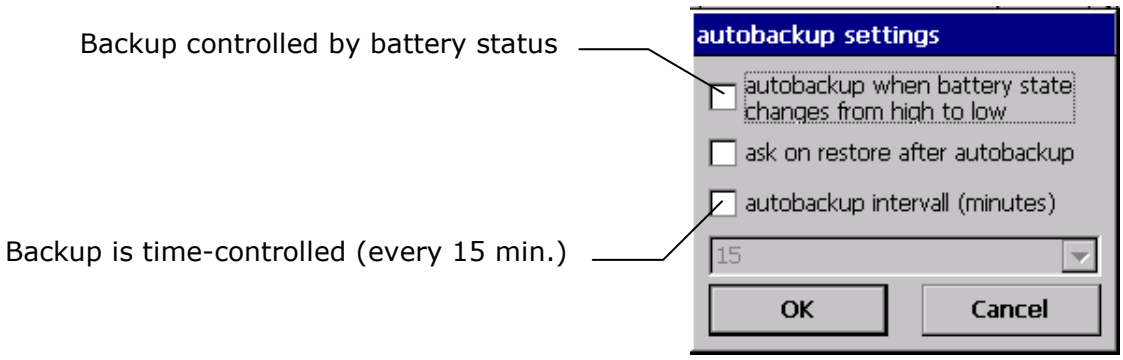


Fig. 30: SysBackup

Select [autobackup settings] to perform further settings.



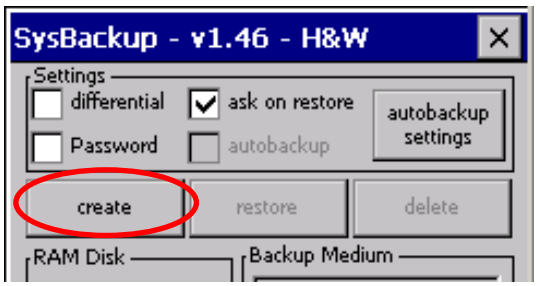
An automatic backup interval that is too short will have a negative effect on the performance.

5.7.2 Creating a Backup

Copy all important data to the "\FlashStorage" folder or its subfolders.

Everything must be backed up to ensure system settings are not lost after a battery has fully discharged or there has been a total shutdown.

1. Open the **SysBackup** program (see chapter 5.7.1).
2. In the **SysBackup** window tap [create].



The message "Execute backup?" appears.

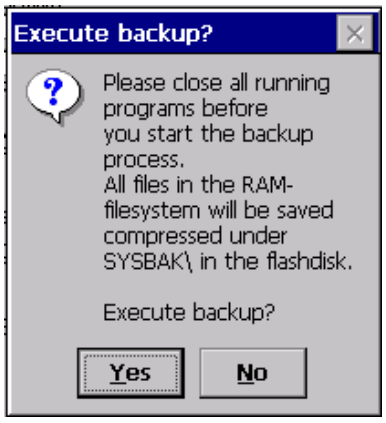

Execute backup?
Please close all running programs before you start the backup process.
All files in the RAM-filesystem will be saved compressed under SYSBAK\ in the flashdisk.
Execute backup?
Yes
No

Fig. 31: Execute backup?

3. Click [Yes] to confirm.
   The SysBackup is performed. After completion the following message displays:

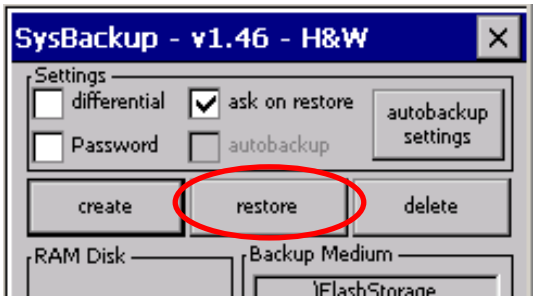
Fig. 32: Backup completed

4. Click [OK] to close the message.
5. Click [Exit] to close the window.

5.7.3 Restoring the Backup

Backup data saved with SysBackup should only be restored in one image and on the same hardware under which they were created, as otherwise problems may occur.

1. Open the **SysBackup** program (see chapter 5.7.1).
2. Select [restore].



The message "Execute restore?" appears.

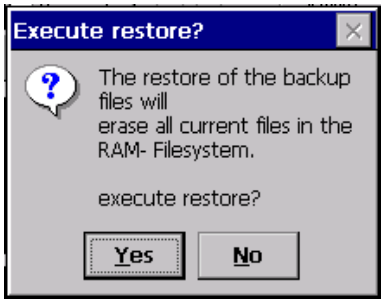


Fig. 33: Execute restore?

3. Click [Yes] to confirm the message.
   The backup will be imported.

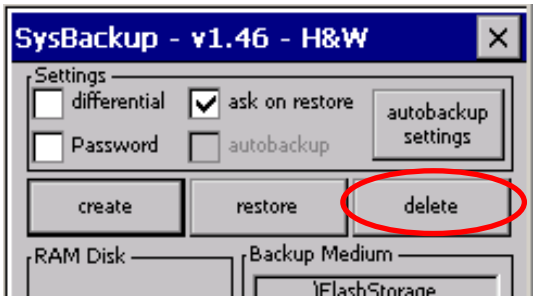
If there is no backup after a restart or if a backup is not required (e.g. after a warm start) the **Sysbackup** program searches all flash media (including the **FlashStorage** memory card) for the **autostat.exe** application. If such application is found it will be executed. There is an autostart mechanism independent from the registry as Sysbackup will always be automatically performed after the system start.

Please note:

All RAM data will be overwritten. All data will be updated to the state prevailing at the time of backup creation.

5.7.4 Deleting a Backup

1. Open the **SysBackup** program (see chapter 5.7.1).
2. Tap [delete].



The message "Erase backup files?" appears.

Fig. 34: Erase backup files

3. Click [Yes] to confirm the message.
   The content of the \FlashStorage\SYSBAK directory will be deleted.

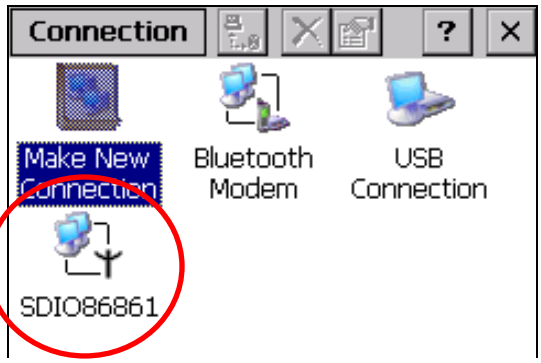
6. Radio

6.1 Wireless LAN

6.1.1 Wireless LAN Network Settings

1. Set up a Wireless LAN access point that provides access to a LAN or the Internet. Follow the instructions of your Wireless LAN access point documentation.
2. Launch on the skeye.allegro: Start ⇒ Settings ⇒ Control Panel ⇒ Network and Dial-up Connections
   or
   Start ⇒ Settings ⇒ Network and Dial-up Connections

3. Double-tap the **WiFi module**.



4. Activate **Obtain an IP address via DHCP**. DHCP is activated by default.

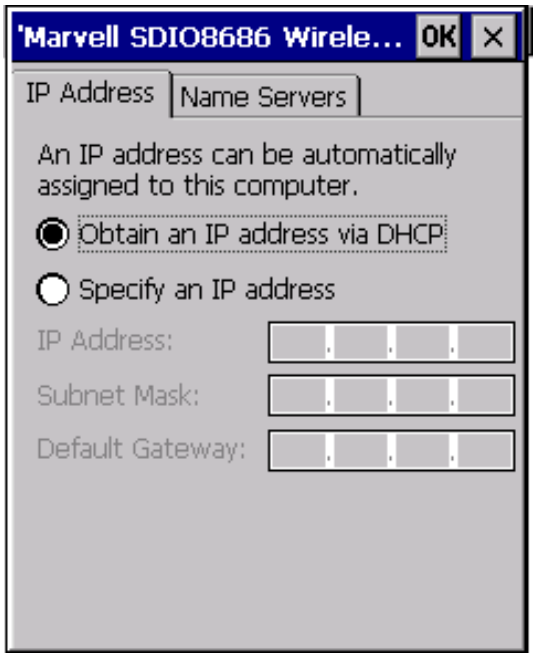


Fig. 35: Wireless LAN | IP address

5. To manually set the IP addresses enter the addresses under **IP address**, **Subnet mask**, **Gateway** and tab **Nameservers**.

6. Tap [OK] for all queries to exit the dialog.

6.1.2 Wireless LAN Configuration

1. Double-tap the network symbol in the Systray.
   The following window appears.

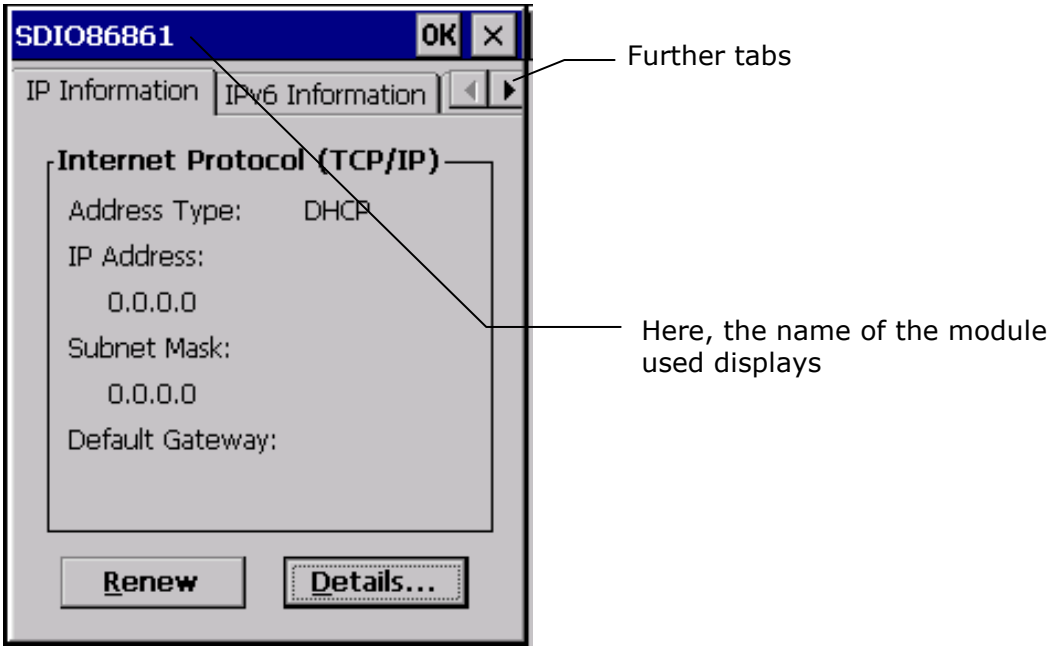


Fig. 36: Wireless LAN

2. Below the **Wireless Information** tab you can select the required network from the list.

Fig. 37: Wireless LAN | Wireless Information

Symbol	Meaning
	Network not available
	Available network connected
	Network available

Fig. 38: Network symbols

3. On the **Wireless Information** tab select a network and **double-tap** the corresponding selection for further options.

   The following window appears:

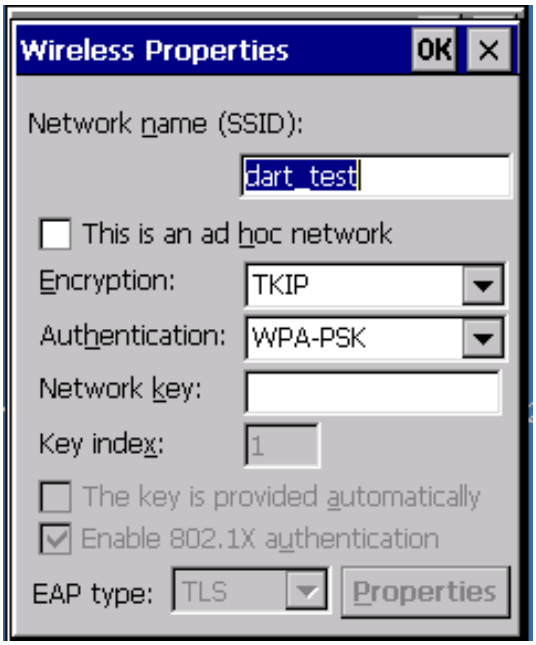


Fig. 39: Wireless – Properties

4. If you selected **Add new...** as the network on the **Wireless Information** tab fill in the fields.

   - **SSID** is the name of the network used to determine your Wireless LAN network. To ensure a communication between all network computers be sure to use the same SSID for all. SSID is the address set in the access point.
   - When accessing via an access point, option **This is a computer-to-computer (ad hoc) network** is not activated.
   - **Encryption** is used to prevent unauthorised access to the network. Enter the *common network key (password)*. This ensures that data is encrypted when being transferred over the network.
   - The encryption type is set under **Encryption**. Under **Authentication**, set the method used by a Wireless LAN client to logon to an access point (e.g. WPA).

- The **network key** and the **network name** (SSID) must be the same as used for the configuration of the access point.

5. Tap [OK] to close the window.
   The network symbol displays in the taskbar.

Be sure to protect your Wireless LAN network. We recommend that you consult a specialist (such as a System house).

6.1.3 Entering the Network ID

To get access to network resources enter information on the network identification.

1. Launch: Start ⇒ Settings ⇒ Control Panel ⇒ Owner
   The Owner Properties window appears.
2. Select the **Network ID** tab.

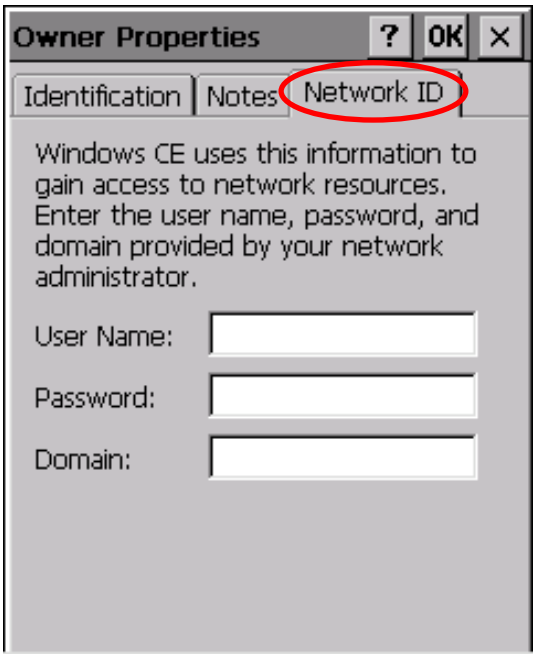


Fig. 40: Owner Properties | Network ID

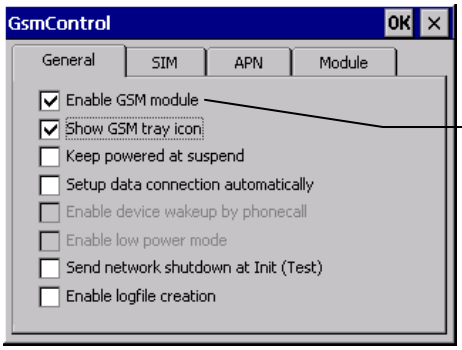
3. On the **Network ID** tab fill in the fields and click [OK] to confirm.

6.2 GSM Control

**only available in the skeye.dart FFE version*

If you wish to dial into the internet, for example via GSM/GPRS/EDGE, further settings are necessary.
First, please check if the GSM module is switched on.

1. Select: Start ⇒ Settings ⇒ Control Panel
2. Double tap the symbol "GsmControl".



The check mark at "Enable GSM module" has to be set.

3. Tap [OK]. If not already so, the GSM module is now switched on and activated.

6.2.1 Establishing a Connection

Before establishing a connection, please ask your provider for the connection settings and the APN (Access Point Name).

1. Insert the SIM card given by your provider into the SIM card slot of the mobile terminal (see also chapter 3.3).
2. Switch on the mobile terminal.
3. After start of the operating system the PIN of the SIM card is asked.

4. Enter the PIN given by your provider into the displayed keyboard.

With every new registration and after a suspend mode the PIN number is asked again. In case you wish to set the PIN number persistently, please follow the instructions in chapter 6.2.2.1.

5. If neither in the module nor in the registry an **APN** (Access Point Name) is entered, you will be asked to give the APN of the provider:

6. Double tap the active **GSM symbol** at the bottom of the Systray.

The following menu is displayed:

7. Select "Connect" to establish a connection via GPRS.

   The GPRS connection is established.

Further comment:
With "Connect" or "Disconnect" an Internet connection is activated or deactivated. The following symbols in the Systray explain the status:

= not connected

= connected

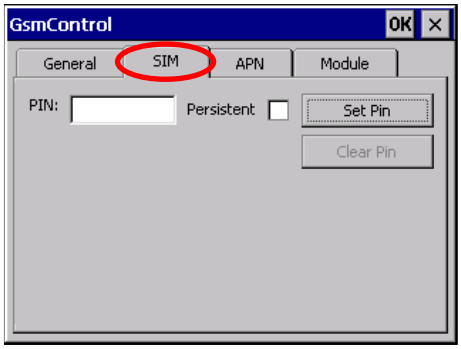
6.2.2 Further Settings

6.2.2.1 Persistent Setting of the PIN Number

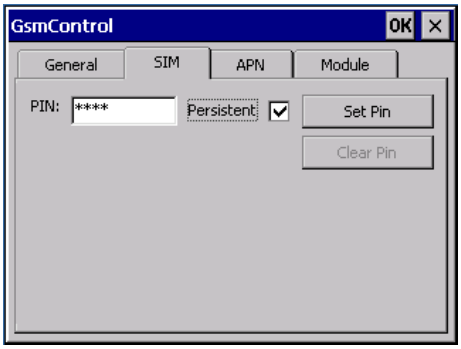
With every new registration and after a suspend mode the PIN number is asked. In order to avoid its entry each time, please proceed as follows:

1. Call: Start ⇒ Settings ⇒ Control Panel ⇒ GsmControl

2. Select index card **SIM**.



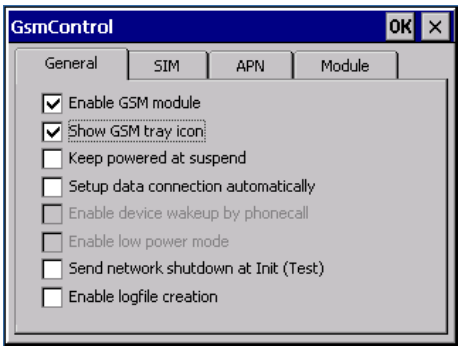
3. Enter the PIN and activate **Persistent**; thus, even after a reset the PIN is sustained and has not to be entered again.



4. Afterwards please tap [Set Pin] and then [OK].

6.2.2.2 General Settings

1. Call: Start ⇒ Settings ⇒ Control Panel ⇒ GsmControl
2. Select index card **General**.



The following settings are available:

Enable GSM module	Enable the GSM module
Show GSM tray icon	Show the GSM symbol in the systray
Keep powered at suspend*	Power supply of the GSM module also during suspend mode (battery life time). *See below*.
Setup data connection automatically	GSM connection is always started automatically
Send network shutdown at Init	Logout from provider network
Enable logfile creation	Generating a log file (under flash storage)

***Keep powered at suspend**

☐ Complete GSM switch-off at suspend

Advantage: Low power consumption at suspend

Disadvantage: When switching off the device a new login is necessary (waiting time). The PIN has to be entered repeatedly (exception: it is set persistently in the device, see chapter 6.2.2.1)

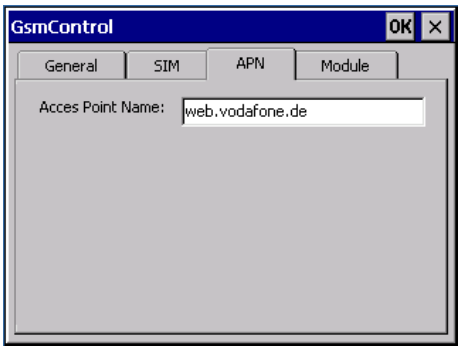
☑ GSM module is kept powered at suspend

Advantage: Short waiting time after switching-on. The device remains locked in (allows functions as tracking or Wakeup via call).

Disadvantage: Increased power consumption

6.2.2.3 APN

1. Call: Start ⇒ Settings ⇒ Control Panel ⇒ GsmControl
2. Select index card **APN**.



Here you can change the **APN** afterwards, e.g. in case of wrong entries or a new provider

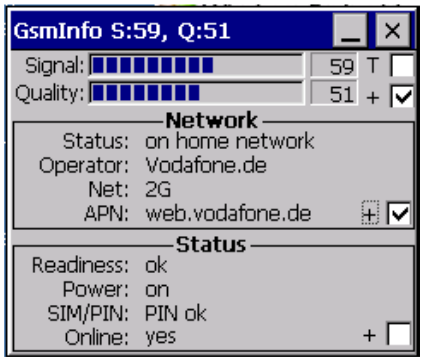
6.2.2.4 GSM Info

1. Call: Start ⇒ Programs ⇒ Communication ⇒ GsmInfo
   Some important information is displayed in this window.

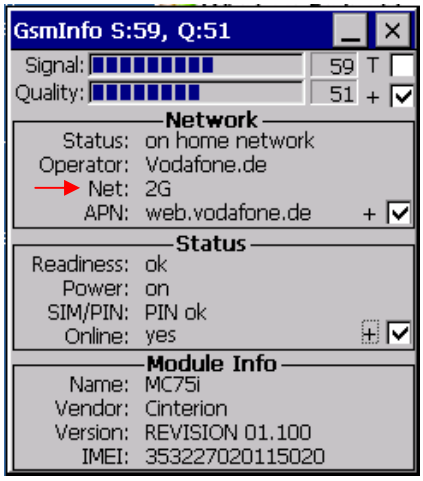
Here, signal volume and –quality of the GSM connection as well as further connection information are displayed.

If you set a checkmark at **T**, this information is always in the foreground.

Please set a checkmark in the box below right to select further items.



Please set a checkmark in the box below right to select further items



Data rates:

GSM = 2G
GPRS = 2,5G
EDGE = 2,75G

Depend on provider and net capacity.

6.3 GPS Module

**only available in the skeye.dart FFE version*

You can start GPS with a terminal program of your own choice by activating the GPS module via COM6 with 9600 Baud.

7. Communication Cradles

7.1 Communucation Cradle (USB Standard)

Fig. 41: Communication cradle | front and rear view

- **LED:** The red LED at the communication cradle indicates a connection to power.
- **Connections:** USB host, USB device, DC-in, system interface to the mobile terminal

7.2 Technical Data

Casing:	Shock resistant plastic, self-extinguishing according to UL94V-0
Slots:	One slot for the mobile terminal including battery.
Ports & Connectors	• Connection for HW 14240 power supply, DC voltage input Mini DC Power Jack ∅ 1,3 mm, 5 V / 2.8 A • System interface to the mobile terminal • USB device ➢ USB 1.1 ➢ Connection to a PC to communicate via ActiveSync possible • USB host ➢ USB 1.1 ➢ Connection to USB devices 500 mA, 5 V
LED:	1 red LED on the front panel signals communication cradle operating status
Battery charging:	• Charging in mobile terminal: controlled by the mobile terminal charging electronics • Charging duration: approx. 2.5 h (HW 19240)
Ambient conditions:	• Operate only indoors • Ensure good ventilation is available

	• Operating temperature: - limit values: 0 °C to +40 °C, - recommended range: 10 °C to +30 °C,
	• Storage temperature: -20 °C to +60 °C • Humidity: up to 85 % (non-condensing)
Rules and Standards:	• CE conformity • ElektroG and RoHs conformity
Dimensions:	• about 95 mm x 95 mm x 75 mm (L x W x H)
Weight:	• about 140 g

7.3 Charging the Battery in the Communication Cradle

- Connect the communication cradle to power. The red LED of the communication cradle glows.
- Insert the mobile terminal (incl. battery) in the communication cradle. The LED of the mobile terminal glows red.
- When the LED of the mobile terminal glows green the battery is fully charged.
- Charging time: about 2.5 h

7.4 Connecting the Communication Cradle to the Desktop PC

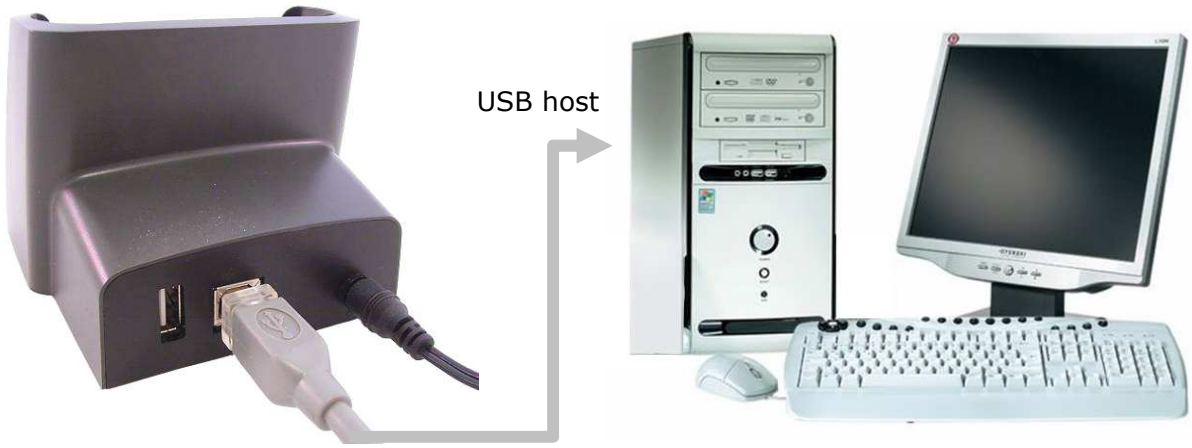


Fig. 42: Connecting the communication cradle to the desktop PC

Communication cradle: USB device ⇔ PC: USB host

7.5 Desktop Cradle (USB with Battery Charger)

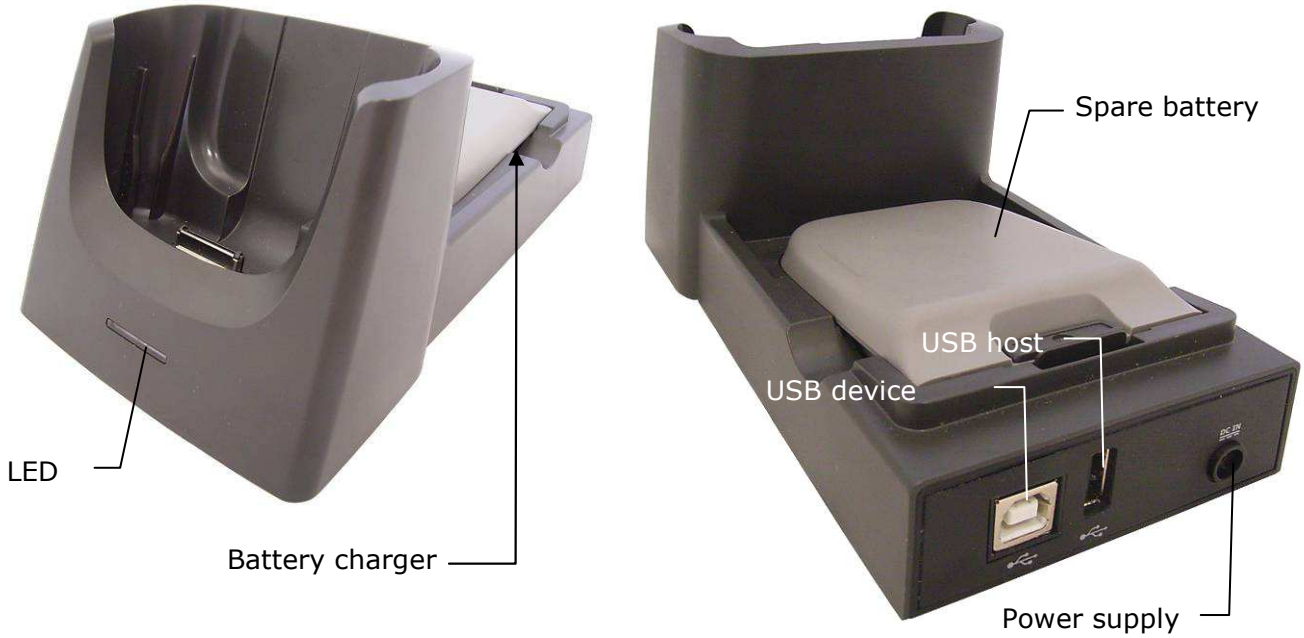


Fig. 43: Desktop cradle | front and rear view

- **LED:**
  - Glows red: spare battery is charging.
  - Glows green: spare battery is fully charged.
  - Glows blue: cradle is operational, no spare battery in slot.
- **Connections:** USB host, USB device, DC-in, system interface to the mobile terminal

7.6 Technical Data

Casing: Shock resistant plastic, self-extinguishing according to UL94V-0

Slots:
- One slot for the mobile terminal including battery.
- One additional slot for battery charging.

Ports & Connectors
- Connection for HW 14240 power supply, DC voltage input Mini DC Power Jack ∅ 1,3 mm, 5 V / 2.8 A
- System interface to the mobile terminal
- USB device
  - ➢ USB 1.1
  - ➢ Connection to a PC to communicate via ActiveSync possible
- USB host
  - ➢ USB 1.1
  - ➢ Connection to USB devices 500 mA, 5 V

LED: 1 LED on the front panel signals desktop cradle and spare battery (see above) operating status

Battery charging:
- Charging in mobile terminal: controlled by the mobile terminal charging electronics
- Charging in battery charger: controlled by charging electronics in the desktop cradle
- Charging duration: approx. 2.5 h (HW 19240) or approx. 5 h (HW 19241)

Ambient conditions:	• Operate only indoors • Ensure good ventilation is available • Operating temperature: - limit values: 0 °C to +40 °C, - recommended range: 10 °C to +30 °C, • Storage temperature: -20 °C to +60 °C • Humidity: up to 85 % (non-condensing)
Rules and Standards:	• CE conformity • ElektroG and RoHs conformity
Dimensions:	• about 114 mm x 100 mm x 75 mm (L x W x H)
Weight:	• about 215 g

7.7 Charging the Battery in the battery charger slot

- Connect the desktop cradle to power. The LED of the desktop cradle glows blue.
- Insert the battery into the battery charger slot of the desktop cradle. The LED glows red.
- When the LED glows green the battery is fully charged.
- Charging time: about 2.5 h (HW 19240) or about 5 h (HW 19241).

7.8 Communication skeye.dart ⇔ PC

- Install on your PC the program for data synchronisation of a PC with a mobile device. This program should be appropriate to your operational system:
  - Microsoft ActiveSync ⇒ for Windows XP
  - Windows Mobile Device Center (WMDC) ⇒ for Windows Vista
  - Device Stage ⇒ for Windows 7

These programs are available for free via www.Microsoft.com/getstarted. With these programs you can handle the following tasks:

- Add and remove programs on your skeye.dart
- Synchronise files
- Transfer and copy files

7.9 Application of USB Host

Example:

Put an USB stick into the connector of the USB Host of the communication cradle. The skeye.dart has now access to the data of the USB stick.

Fig. 44: Communication cradle | USB stick

NOTE!

Please do connect only USB devices to the USB host of the communication cradle that consume not more than max. 500 mA to 5 V.

8. Technical Data

Casing:	Rugged case, protection level IP54, drop spec 1,2 m
Processor:	CPU Marvell PXA 320, 624 MHz
Memory:	128 MB DDRAM, 256 MB Flash
Display:	3,5 " VGA colour TFT with touchscreen
Keyboard:	• Two keyboard versionen available (5 keys/9 keys) • 2-side scan buttons • Individually backlit keys for intuitive operation
LED:	2-colour LED indication: • red: battery is charging • green: battery is fully charged
Further equipment:	• Camera 2 MP, autofokus, with barcode decodierung function, camera flash light and aimer ***or*** 2D-Imager • Microphone, Receiver, Speaker
Communication:	• Wireless LAN IEEE 802.11 b/g • Bluetooth 2.0 • GSM/GPRS/EDGE (only FFE) • GPS (only FFE)
Battery:	Rechargeable battery pack 2100 mAh (lockable)
Interfaces:	• USB 1.1 host port (Full Speed) • USB 1.1 device port (Full Speed) • RS232 port (TxD, RxD, RTS, CTS) • Micro-SD card slot (lockable) • DC-in connector • Headset connector
Temperature Range:	Operating temperature: –10 °C bis + 50 °C
Size:	145 mm x 79 mm x 25 mm
Weight:	270 g (including battery)
Rules and Standards:	• CE Marking • German ElektroG and RoHS conformity

9. Troubleshooting

9.1 Reset via Software

If an application does not react use the software to perform a restart.

Via function
Start ⇒ Programs ⇒ Utilities ⇒ Reboot
A warm or a cold start of the device can be activated.

The system restarts. Unsaved data will be lost.

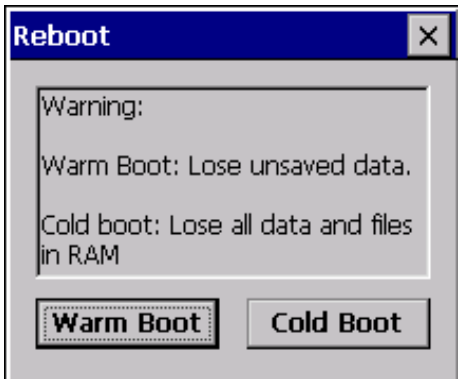


Fig. 45: Reboot

9.2 Reset via Hardware

If the touch screen does not react or if you cannot switch on the device, press the reset button.

Fig. 46: skeye.dart, Reset

Use the stylus to initiate the reset.

First press (according to keyboard version) the middle key in the navigation field (or the scan key), keep it pressed and then press additionally the reset key.

Press the reset key carefully with low expenditure of force.

After a hardware reset, all data and settings in RAM are deleted from your mobile terminal. Data in FLASH are not deleted.

Manufacturer's Address

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